ENVIRONMENTAL CONSERVATION

Contents of Volume 15, 1988

No. 1 – Spring 1988

Guest Editorial: *A 'Blue Plan' for the Mediterranean Region*, by Dr Michel Batisse 3–6
Notice: *Index of Titles and Authors in* Environmental Conservation, 1974–86, by Lynn Curme 2
Civilization and Rapid Climatic Change, by Professor Reid A. Bryson (9 figs and table) 7–15
The Human Causes of Forest Depletion in Nigeria, by Dr Gbdebo Jonathan Osemeobo (9 figs and 7 tables) . . 17–28
Hydrology and Soil Fertility of Degraded Grasslands at Cherrapunji in Northeastern India, by Dr Subhash C. Ram & Professor P.S. Ramakrishnan (6 figs and 6 tables) 29–35
Bukit Timah: the History and Significance of a Small Rain-forest Reserve, by Dr Richard T. Corlett (5 figs) 37–44
The Kirby Canyon Conservation Agreement: A Model for the Resolution of Land-use Conflicts Involving Threatened Invertebrates, by Dr Dennis D. Murphy (3 figs) 45–8 & 57
The Role of Government Subsidies in the Population Decline of Some Unique Wildlife Species on Amami Oshima, Japan, by Dr Ken Sugimura (7 figs and 4 tables) 49–57
The Ecosystem' Approach to Managing Human Uses and Abuses of Natural Resources in the Great Lakes Basin, by Drs John R. Vallentyne & Alfred M. Beeton (fig.) . . 58–62

Short Communications & Reports:
Death of the European Landscape?, by Pascal Herrscher 63–4
The History and Present Management of Two Rare Endemic Trees on the Island of Arran, Scotland, by Dr William E. Boyd, Angus I. Laing, Graham Steven & Dr James H. Dickson (map) 65–6
Loss of Forest and Fuel-wood Prices, by Drs William F. Hyde & Lawrence S. Hamilton 66–7
IPPNW: A Glance Back and a Look at the Future, by Dr Peter A. Zheutin 67–8
Some Effects of Dams on Wildlife, by Wan-li Liao, Professor Devendra Swaroop Bhargava & Jaba Das (2 figs) 68–70

Notes, News & Comments:
The Foundation for Environment Conservation: Auspices, Objectives, and Needs, by Nicholas Polunin 71–3
Repetition of Summer School for Multidisciplinary Assessment of Environmental Risks for Human Health, by Professor Aristeo Renzoni 73
Risk Management and Rapid Urban Growth, by Alexander Burton 73
The October 1987 Storm: Widespread Damage to Trees in Southern England by Peter G. Barnes (3 figs) 74–5
Towards a University of the Mediterranean?, by Professor Aristeo Renzoni 75–6
The International Environmental Bureau, by Albert E. Fry 76
Genetic Diversity, by Drake McHugh 76–7
Ecosystem Theory and Application, by Dr Gonzague Pillet & Gaye Bristow 77
Go Back for the Future to Rehabilitate Landscape, by Barry R. Jackson (fig.) 77–8
Proposed Debt for 'Conservation' Plan, by H. Whelan . . 78–9
An Opportunity for Poster Designers, Publishers, and Enthusiasts, by Dr Ján Kleinert 79
'INSONA Conservation Award' for Environmental Achievement, by Dr G.M. Oza 79–80
CFC Responsibility Claimed for Stratospheric Ozone Depletion, by Global Ozone Observing System . . . . . 80 & 92

Conferences & Meetings: Including Reports by Professor John L. Cloudsley-Thompson, Dean William G. Berberet, Dr Arthur B. Sacks & Nicholas Polunin, Hayo H. Hoekstra, Dr Jacques Grinevald, Professor Norman Myers, Professor J.S. Singh, Dr K.P. Singh & Professor R.S. Ambasht, Dr Asik K. Biswas, and Dr Robert Visser; Important Prospects by Paolo Vestrucci and Dr Edmond P. Fitzgerald 81–6

Reviews & Notices: Book Reviews by Dr E. Barton Worthington, Professor Raoul Mitchell-Thomé (2), Dr J.F.D. Frazer (2), Professor W. Robert Stanton (2), Dr John A. Loraine, and Dr Michael B. Usher 87–92

Other Books etc. Received 1987 93–6

No. 2 – Summer 1988

Editorial: *What Its Human Component is Attempting for The Biosphere* 97–8
Guest Comment: *The Threshold for Action*, by Dr Genady N. Golubev 99–100
Notice: *Foundation Awards Committee: 'Best Paper' Awards for 1987* 116
Chlorofluorocarbons, Stratospheric Ozone, and the Antarctic 'Ozone Hole', by Professor F. Sherwood Rowland (5 figs) 101–15
Vernadsky and Biospheral Ecology, by Nicholas Polunin & Dr Jacques Grinevald 117–22
Legislative Confrontation of Groupthink in US Natural Resource Agencies, by Dr James J. Kennedy 123–8
Obstacles to Effective Management of Conflicts Between National Parks and Surrounding Human Communities in Developing Countries, by John L. Hough 129–36
Differences Between Environmental Impacts of Logging and Recreation in Mature Forest Ecosystems, by Drs M.F. Makhdoum & N. Khorasani (4 figs and 2 tables) 137–42 & 166
National Parks and Local Development: Grasses and People in Royal Chitwan National Park, Nepal, by John F. Lehmkuhl, Rajesh K. Upreti & Uday R. Sharma (4 figs and 2 tables) 143–8
Optimal Management of Karst Sites with Cave Fauna Protection, by Dr Raymond Tercafs (9 figs and 5 tables) . 149–58 & 166
The Environmental Impact of Coral Mining on Coral Reefs in the Maldives, by Dr Barbara E. Brown & Richard P. Dunne (10 figs and 3 tables) 159–65

Short Communications & Reports:
An Indian Conservational Success: Saving Habitat for the Endangered Blackbuck, by H.H. Fatehsinghrao P. Gaekwad & Dr Gunavant M. Oza (3 figs) 167–9
Urban Greenspace: A Woodland Study, by Joseph Obua (2 figs and 2 tables) 169–71
Phosphorus in a Marl Lake in Kashmir, by Dr Mohammed Ishaq & Professor V. Kaul (4 figs and 5 tables) 171–5

Notes, News & Comments:
World Council for The Biosphere Constitution 176–7
Vernadsky Commemoration 'Round Table Resolutions' . 177
UN Secretary-General's Message in Observance of World Environment Day, 5 June 1988, by Javier Pérez de Quéllar 178
The CFC-Ozone Issue: Alternative Products and the Montreal Protocol, by Dr Joseph P. Glas 178–9
The Mediterranean Blue Plan: Some Further Comments, by Professor Elisabeth Mann Borgese 179–80
This Year's 'Global 500', by John Shaw 180
International Meteorological Organization Prize Presented to Professor M.I. Budyko 181
Propitious Gold Medal for International Corporate Environment Achievement, by Dr Whitman Bassow 181
New Strategy for Future of UNESCO 182
Nature Tourism, by Hortense Whelan 181
ECE Declaration on Conservation of Flora, Fauna, and Their Habitats 183
Royal Geographical Society Support for Expeditions, 1988, by Shane Winser 183

Conferences & Meetings: Reports by Professor Makoto Numata (2), Dr Asit K. Biswas, Drake McHugh, Albert E. Fry, and Nicholas Polunin (2 figs); Important Prospects by S.B.C. Agarwala and Dr Arthur H. Purcell . 184–9

Reviews & Notices: Book Reviews by Dr John A. Loraine, Professor John L. Cloudsley-Thompson, Dr David J. Hambler (2), Professor W. Robert Stanton, and John G. Kelcey 190–92

No. 3 – Autumn 1988

Guest Comment: *Biological Diversity and Tropical Forests*, by Dr Jeffrey A. Sayer & Simon Stuart (table) . . 193–4
Guest Comment: *Environment — Geography — Environment* 195
Notice: *Index of Titles and Authors in* Environmental Conservation *Now Available* by Lynn Curme 196
Desertification or Sustainable Yields from Arid Environments, by Professor John L. Cloudsley-Thompson (7 figs) 197–204

ENVIRONMENTAL CONSERVATION

Contents of Volume 15, 1988

No. 1 – Spring 1988

Guest Editorial: *A 'Blue Plan' for the Mediterranean Region*, by Dr Michel Batisse 3–6
Notice: *Index of Titles and Authors in* Environmental Conservation, 1974–86, by Lynn Curme 2
Civilization and Rapid Climatic Change, by Professor Reid A. Bryson (9 figs and table) 7–15
The Human Causes of Forest Depletion in Nigeria, by Dr Gbdebo Jonathan Osemeobo (9 figs and 7 tables) . . 17–28
Hydrology and Soil Fertility of Degraded Grasslands at Cherrapunji in Northeastern India, by Dr Subhash C. Ram & Professor P.S. Ramakrishnan (6 figs and 6 tables) 29–35
Bukit Timah: the History and Significance of a Small Rain-forest Reserve, by Dr Richard T. Corlett (5 figs) 37–44
The Kirby Canyon Conservation Agreement: A Model for the Resolution of Land-use Conflicts Involving Threatened Invertebrates, by Dr Dennis D. Murphy (3 figs) 45–8 & 57
The Role of Government Subsidies in the Population Decline of Some Unique Wildlife Species on Amami Oshima, Japan, by Dr Ken Sugimura (7 figs and 4 tables) 49–57
The Ecosystem' Approach to Managing Human Uses and Abuses of Natural Resources in the Great Lakes Basin, by Drs John R. Vallentyne & Alfred M. Beeton (fig.) . . 58–62

Short Communications & Reports:
Death of the European Landscape?, by Pascal Herrscher 63–4
The History and Present Management of Two Rare Endemic Trees on the Island of Arran, Scotland, by Dr William E. Boyd, Angus I. Laing, Graham Steven & Dr James H. Dickson (map) 65–6
Loss of Forest and Fuel-wood Prices, by Drs William F. Hyde & Lawrence S. Hamilton 66–7
IPPNW: A Glance Back and a Look at the Future, by Dr Peter A. Zheutin 67–8
Some Effects of Dams on Wildlife, by Wan-li Liao, Professor Devendra Swaroop Bhargava & Jaba Das (2 figs) 68–70

Notes, News & Comments:
The Foundation for Environment Conservation: Auspices, Objectives, and Needs, by Nicholas Polunin 71–3
Repetition of Summer School for Multidisciplinary Assessment of Environmental Risks for Human Health, by Professor Aristeo Renzoni 73
Risk Management and Rapid Urban Growth, by Alexander Burton 73
The October 1987 Storm: Widespread Damage to Trees in Southern England by Peter G. Barnes (3 figs) 74–5
Towards a University of the Mediterranean?, by Professor Aristeo Renzoni 75–6
The International Environmental Bureau, by Albert E. Fry 76
Genetic Diversity, by Drake McHugh 76–7
Ecosystem Theory and Application, by Dr Gonzague Pillet & Gaye Bristow 77
Go Back for the Future to Rehabilitate Landscape, by Barry R. Jackson (fig.) 77–8
Proposed Debt for 'Conservation' Plan, by H. Whelan . . 78–9
An Opportunity for Poster Designers, Publishers, and Enthusiasts, by Dr Ján Kleinert 79
'INSONA Conservation Award' for Environmental Achievement, by Dr G.M. Oza 79–80
CFC Responsibility Claimed for Stratospheric Ozone Depletion, by Global Ozone Observing System . . . . . 80 & 92

Conferences & Meetings: Including Reports by Professor John L. Cloudsley-Thompson, Dean William G. Berberet, Dr Arthur B. Sacks & Nicholas Polunin, Hayo H. Hoekstra, Dr Jacques Grinevald, Professor Norman Myers, Professor J.S. Singh, Dr K.P. Singh & Professor R.S. Ambasht, Dr Asik K. Biswas, and Dr Robert Visser; Important Prospects by Paolo Vestrucci and Dr Edmond P. Fitzgerald 81–6

Reviews & Notices: Book Reviews by Dr E. Barton Worthington, Professor Raoul Mitchell-Thomé (2), Dr J.F.D. Frazer (2), Professor W. Robert Stanton (2), Dr John A. Loraine, and Dr Michael B. Usher 87–92

Other Books etc. Received 1987 93–6

No. 2 – Summer 1988

Editorial: *What Its Human Component is Attempting for The Biosphere* 97–8
Guest Comment: *The Threshold for Action*, by Dr Genady N. Golubev 99–100
Notice: *Foundation Awards Committee: 'Best Paper' Awards for 1987* 116
Chlorofluorocarbons, Stratospheric Ozone, and the Antarctic 'Ozone Hole', by Professor F. Sherwood Rowland (5 figs) 101–15
Vernadsky and Biospheral Ecology, by Nicholas Polunin & Dr Jacques Grinevald 117–22
Legislative Confrontation of Groupthink in US Natural Resource Agencies, by Dr James J. Kennedy 123–8
Obstacles to Effective Management of Conflicts Between National Parks and Surrounding Human Communities in Developing Countries, by John L. Hough 129–36
Differences Between Environmental Impacts of Logging and Recreation in Mature Forest Ecosystems, by Drs M.F. Makhdoum & N. Khorasani (4 figs and 2 tables) 137–42 & 166
National Parks and Local Development: Grasses and People in Royal Chitwan National Park, Nepal, by John F. Lehmkuhl, Rajesh K. Upreti & Uday R. Sharma (4 figs and 2 tables) 143–8
Optimal Management of Karst Sites with Cave Fauna Protection, by Dr Raymond Tercafs (9 figs and 5 tables) . 149–58 & 166
The Environmental Impact of Coral Mining on Coral Reefs in the Maldives, by Dr Barbara E. Brown & Richard P. Dunne (10 figs and 3 tables) 159–65

Short Communications & Reports:
An Indian Conservational Success: Saving Habitat for the Endangered Blackbuck, by H.H. Fatehsinghrao P. Gaekwad & Dr Gunavant M. Oza (3 figs) 167–9
Urban Greenspace: A Woodland Study, by Joseph Obua (2 figs and 2 tables) 169–71
Phosphorus in a Marl Lake in Kashmir, by Dr Mohammed Ishaq & Professor V. Kaul (4 figs and 5 tables) 171–5

Notes, News & Comments:
World Council for The Biosphere Constitution 176–7
Vernadsky Commemoration 'Round Table Resolutions' . 177
UN Secretary-General's Message in Observance of World Environment Day, 5 June 1988, by Javier Pérez de Quéllar 178
The CFC-Ozone Issue: Alternative Products and the Montreal Protocol, by Dr Joseph P. Glas 178–9
The Mediterranean Blue Plan: Some Further Comments, by Professor Elisabeth Mann Borgese 179–80
This Year's 'Global 500', by John Shaw 180
International Meteorological Organization Prize Presented to Professor M.I. Budyko 181
Propitious Gold Medal for International Corporate Environment Achievement, by Dr Whitman Bassow 181
New Strategy for Future of UNESCO 182
Nature Tourism, by Hortense Whelan 181
ECE Declaration on Conservation of Flora, Fauna, and Their Habitats 183
Royal Geographical Society Support for Expeditions, 1988, by Shane Winser 183

Conferences & Meetings: Reports by Professor Makoto Numata (2), Dr Asit K. Biswas, Drake McHugh, Albert E. Fry, and Nicholas Polunin (2 figs); Important Prospects by S.B.C. Agarwala and Dr Arthur H. Purcell . 184–9

Reviews & Notices: Book Reviews by Dr John A. Loraine, Professor John L. Cloudsley-Thompson, Dr David J. Hambler (2), Professor W. Robert Stanton, and John G. Kelcey 190–92

No. 3 – Autumn 1988

Guest Comment: *Biological Diversity and Tropical Forests*, by Dr Jeffrey A. Sayer & Simon Stuart (table) . . 193–4
Guest Comment: *Environment — Geography — Environment* 195
Notice: *Index of Titles and Authors in* Environmental Conservation *Now Available* by Lynn Curme 196
Desertification or Sustainable Yields from Arid Environments, by Professor John L. Cloudsley-Thompson (7 figs) 197–204

Environmental Degradation and Some Economic Consequences in the Philippines, by Professor Norman Myers (map and 2 tables) 205–14
The Invasion of Highlands in Galápagos by the Red Quinine-tree Cinchona succirubra, by Ian A.W. Macdonald, Luis Ortiz, Jonas E. Lawesson & J. Bosco Nowak (4 figs) 215–20
The Black-headed Gull's Adaptation to Polluted Environments: The Role of the Mixed-function Oxidase Detoxication System, by Dr Cristina Fossi, Claudio Leonzio, Dr Silvano Focardi & Professor Aristeo Renzoni (3 figs) 221–4
A Computer-based Method of Wilderness Evaluation, by Robert G. Lesslie, Brendan G. Mackey & Kathryn M. Preece (3 figs and table) 225–32
Coexistence, Stress, and Catastrophe, in Grassy Vegetation Established in a Hard-limestone Quarry, by Dr Jean M. Dixon & Dr David J. Hambler (7 figs and Appendix) 233–8
Animal Wildlife Conservation under Multiple Land-use Systems in Nigeria, by Dr Gbdebo Jonathan Osemeobo (6 figs and 7 tables) 239–49
Environmental Impacts of the Proposed Stiegler's Gorge Hydropower Project, Tanzania, by Raphael B.B. Mwalyosi (3 figs) 250–4
Vegetation Dynamics and Slope Management on the Mountains of the Hawaiian Islands, by Professor Dieter Mueller-Dombois (6 figs) 255–60

Short Communications & Reports:
Is Agriculture a Viable Alternative to Eucalyptus Plantation on Reclaimed Tin-mine Spoil on the Jos Plateau, Nigeria?, by Dr Michael J. Alexander (2 figs and 3 tables) 261–3
Shadow-pricing Environmental Goods and Services. Using the Enmergy Method by Dr Gonzague Pillet (fig.) 263–4
The United States' Nuclear Defense Industry, by Dr Roland J. Lamarine 264–6
Threats to Kashmir Wetlands and Their Wildlife Resources, by Dr Ashok K. Pandit (7 figs) 266–8
Environmental Impacts of Phosphate Mining in Tanzania, by Raphael B.B. Mwalyosi (map) 269–70

Notes, News & Comments:
Fond Tribute to An Ardent Conservationist: H.H. Fatehsinghrao P. Gaekwad, 1930–88, by Dr Gunavant M. Oza & Nicholas Polunin (fig.) 271–2
New Journal on Environmental Policy in the Soviet Union and Eastern Europe, by Professor Marshall I. Goldman 272–3
International Sasakawa Environment Prize for 1988 Awarded to World Commission on Environment & Development and Royal Commission for Jubail & Yanbu of Saudi Arabia 273
'Only One Earth' and 'Crystal Drop' Awards go to UNEP Executive Director, by Frances Barron 274
Kenyan Wins Getty Conservation Prize, by Kathryn S. Fuller 274
Ecological Consequences of Chernobyl Nuclear Accident 275
The World's Largest Flowers and Their Future, by Dr Susan Kay Jacobson (fig.) 275–6
IIED-North America Joins WRI, by Lani Sinclair 276
UNEP/UNESCO Postgraduate Training Course for Developing Countries, by Walter D.S. Leal Filho 277
International Dawn Chorus Day, by Harvey Withers . . 277
International Lake Environment Committee (ILEC), by Professor Tatuo Kira 277–8
Appeal of the Initiators of 'The Green Wave' of Voluntary Ecological Action, by Alexander Cheparkhin 278

Conferences & Meetings: Reports by Professor Makoto Numata, Dr A. Alan Ryder, Dr Hamlyn G. Jones, Nicholas Polunin (2 figs), Dr Arthur H. Purcell, and Chancellor F. Kenneth Hare; Important Prospect by John M. Calabrini 279–83

Reviews & Notices: Book Reviews by Professor Kenneth Mellanby, Professor John L. Cloudsley-Thompson (2), Dr Jean M. Dixon, Dr J.K. Maheshwari, Professor W. Robert Stanton, and Dr Hamlyn G. Jones 284–8

No. 4 – Winter 1988

Guest Comment: *A Dance of Death* or *A Celebration of Life?*, by Dr Thomas F. Malone 289–90
Editorial: *Remember the Noosphere* 291
Notice: *Index of Titles and Authors in* Environmental Conservation, *1974–86*, by Lynn Curme 292
Tropical Deforestation and Climatic Change, by Professor Norman Myers 293–8
The Greening of Estonia, by Dr Arthur H. Westing . . . 299–302
Roadside Birds of Punjab (India): Relation to Mortality from Vehicles, by Dr Manjit S. Dhindsa, Dr Jaswinder S. Sandhu, P.S. Sandhu & Dr H.S. Toor (8 figs and 3 tables) 303–10
Cattle Movement and Its Ecological Implications in the Middle Niger Valley of Nigeria, by Augustine N. Okaeme, Dr Julius S.O. Ayeni, Moses O. Oyatogun, Musa Wari, Mohammed M. Haliru & Agboola O. Okeyoyin (2 maps) 311–6
Environmental Conservation at the Sub-Antarctic Prince Edward Islands: A Review and Recommendations, by John Cooper & Dr Patrick R. Condy (5 figs) 317–26
Assessing the Impacts of Human Activities on the Nesting Habitats of the Loggerhead Sea-turtle (Caretta caretta L.) *in Zákynthos, Western Greece*, by Dr Margarita Arianoutsou (10 figs and table) 327–34
The El Kala National Park and Environs, Algeria: An Ecological Evaluation, by Dr Anthony C. Stevenson, Jamie Skinner, Dr G. Edward Hollis & Michael Smart (2 figs and 3 tables) 335–48
Classical Biological Control and Insect Conservation: Are They Compatible?, by Professor Michael J. Samways (6 figs & table) . . . . . 349–54 & 348

Short Communications & Reports:
The International Geosphere-Biosphere Programme: A Study of Global Change, by Dr F.W.G. Baker 355–6
High Relative Sensitivities of Some Leguminous Crops to Ozone Pollution, by Dr Madan S. Kasana (2 figs) . . . 356–8
Control of Urban Wildlife Predation by Cats Through Public Education, by Dr Gilbert Proulx (4 figs) 358–9
The Role of Water Management in the Degradation Processes of Halophilic Vegetation in Hungary, by István Bagi (5 figs) 359–62
Organochlorines and Metals in Spanish Imperial Eagle Eggs, 1986–87, by Dr Luis M. Hernández, Dr Maria J. González & Mario A. Fernandez (2 tables) 363–4

Notes, News & Comments:
The First International Children's Festival for 'Peace With Nature', by Dr Maria Louisa Cohen (3 figs) 365–6
International Cooperation on World Conservation Information Centre: Joint Announcement by UNEP, IUCN, and WWF, by Drake McHugh 366–7
The First IGBP Scientific Steering Committee on Global Changes of the Past 367
Tribal Clans in Central India and Their Role in Conservation, by Dr Ashok K. Jain (table) 368
Guidance for Environmental Entrepreneurs, by Stephen Robinson 368–9
The Recent Bangladesh Flood Disaster Was Not *Caused by Deforestation Alone*, by Lawrence S. Hamilton 369–70
'The United States' Nuclear Defense Industry' Updated, by Dr Roland J. Lamarine 370
Trieste Resolution on, and Network Proposal for, Increasing the Flow of Scientific Literature to Third-world Institutions, by Professor R.P. Dalafi 370–1
Sierra Club's International Activities Furthered by Michael McCloskey 371
New Competition Launched for Conservation Expeditions, by Susan M. Wells 371–2
BTCV for Practical Action in Conservation, by Anita Prosser (fig.) 372

Conferences & Meetings: Reports by A. Elwood Wiley, Dr R.W.J. Keay, Dr Susan K. Jacobson & Mary Ann Bishop; Important Prospect by Dr Ian F. Spellerberg 373–7

Reviews & Notices: Book Reviews by Professor John L. Cloudsley-Thompson, Dr Margaret D. Chapman (2), John G. Kelcey, Dr Hamlyn G. Jones, Dr Michael B. Usher, Andrea Baranzini, Sylvia Sandoz-Terraz & Gaye Bristow 378–81
Environmental Conservation: Contents of Volume 15, 1988 382–3
Environmental Conservation: Index of Named Contributors to Volume 15 384